Inventor: Sarman SINGH et al.

Title: "POLYPEPTIDES FOR THE DIAGNOSIS AND THERAPY OF LEISHAMANIASIS"

Figure 1

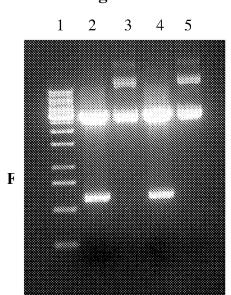
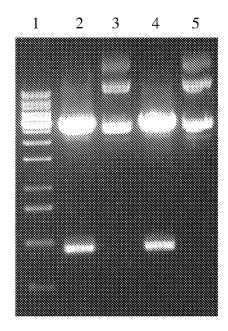


Figure 2



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Title: "POLYPEPTIDES FOR THE DIAGNOSIS AND THERAPY OF LEISHAMANIASIS"

Figure 3A

SEQ	TD	NO:	5	EGRAAELARKLEATASAKNL	VEQDXXXXXXXXXXXX	XIAEVRAAELAG	VLEATAAAKTAV	99
				E RAAELA +LEATA+AK+	EQD	+E RAAELA	LEATAAAK +	
SEQ	ID	NO:	12	EERAAELASQLEATAAAKSS	AEQDRENTRATLEQQL:	RESEARAAELAS	QLEATAAAKMSA	771
SEQ	ID	NO:	5	EQERERTRAALXXXXXXXXX	XXXXXXXXXXXXXXX	TSVEQXXXXXXX	xxxxxxxxxx	159
				EQ+RE TRA L	K	S EQ		
SEQ	ID	NO:	12	EQDRENTRATLEQQLRDSEE	RAAELASQLESTTAAK	MSAEQDRESTRA	TLEQQLRDSEER	831
SEO	TD	NO•	5	XXXXXXXXKSTAAVKSAMEO	DRENTRAT 187			

+ST A K + EQDRE+TRAT

SEQ ID NO: 12 AAELASQLESTTAAKMSAEQDRESTRAT 859

Figure 3B

SEQ	ID	NO:	5	EQEREKTRTALEGRAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXXIAEVR 81
				EQ+RE TR LE RAAELA +LEATA+AK EQD +E R
SEQ	ID	NO:	12	EQDRENTRATLEQQLRESEARAAELASQLEATAAAKMSAEQDRENTRATLEQQLRDSEER 792
SEQ	ID	NO:	5	AAELAGVLEATAAAKTAVEQERERTRAALXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 141
				AAELA LE+T AAK + EQ+RE TRA L K S EQ
SEQ	ID	NO:	12	AAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEERAAELASQLESTTAAKMSAEQD 852
SEQ	ID	NO:	5	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
				+ST A K + EQDRE+TRAT
SEQ	ID	NO:	12	RESTRATLEQQLRESEERAAELASQLESTTAAKMSAEQDRESTRAT 898

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Figure 3C

SEQ	ID	NO:	5	EQEREKTRIALEGRAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXXIAEVR 81	
				EQ+RE TR LE RAAELA +LE+T +AK EQD +E R	
SEQ	ID	NO:	12	EQDRENTRATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEER 833	1
SEQ	ID	NO:	5	AAELAGVLEATAAAKTAVEQERERTRAALXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 14	1
				AAELA LE+T AAK + EQ+RE TRA L K S EQ	
SEQ	ID	NO:	12	AAELASQLESTTAAKMSAEQDRESTRATLEQQLRESEERAAELASQLESTTAAKMSAEQD 893	1
SEQ	ID	NO:	5	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
				++TAA KS+ EQDRENTRA	
SEQ	ID	NO:	12	RESTRATLEQQLRDSEERAAELASQLEATAAAKSSAEQDRENTRA 936	

Figure 3D

SEQ ID NO: 5	EGRAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXIAEVRAAELAGVLEATAAAKTAV 99	
	E RAAELA +LEATA+AK+ EQD +E RAAELA LEATAAAK +	
SEQ ID NO: 13	EERAAELASQLEATAAAKSSAEQDRENTRATLEQQLRESEARAAELASQLEATAAAKMSA 771	
SEQ ID NO: 5	EQERERTRAALXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	į
	EQ+RE TRA L K S EQ	
SEQ ID NO: 13	EQDRENTRATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEER 831	
SEQ ID NO: 5	XXXXXXXXKSTAAVKSAMEQDRENTRAT 187	
	+ST A K + EQDRE+TRAT	
SEQ ID NO: 13	AAELASQLESTTAAKMSAEQDRESTRAT 859	

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Title: "POLYPEPTIDES FOR THE DIAGNOSIS AND THERAPY OF LEISHAMANIASIS"

Figure 3E

SEQ ID NO: 5	EQEREKTRTALEGRAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXXIAEVR 81
	EQ+RE TR LE RAAELA +LEATA+AK EQD +E R
SEQ ID NO: 13	EQDRENTRATLEQQLRESEARAAELASQLEATAAAKMSAEQDRENTRATLEQQLRDSEER 792
SEQ ID NO: 5	AAELAGVLEATAAAKTAVEQERERTRAALXXXXXXXXXXXXXXXXXXXXXXXXXXXX 141
	AAELA LE+T AAK + EQ+RE TRA L K S EQ
SEQ ID NO: 13	AAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEERAAELASQLESTTAAKMSAEQD 852
SEQ ID NO: 5	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	+ST A K + EQDRE+TRAT
SEQ ID NO: 13	RESTRATLEQQLRESEERAAELASQLESTTAAKMSAEQDRESTRAT 898

Figure 3F

SEQ	ID	NO:	5	EQEREKTRTALEGRAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXIAEVR 81
				EQ+RE TR LE RAAELA +LE+T +AK EQD +E R
SEQ	ID	NO:	13	EQDRENTRATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEER 831
SEQ	ID	NO:	5	AAELAGVLEATAAAKTAVEQERERTRAALXXXXXXXXXXXXXXXXXXXXXXXXXXXXX 141
				AAELA LE+T AAK + EQ+RE TRA L K S EQ
SEQ	ID	NO:	13	AAELASQLESTTAAKMSAEQDRESTRATLEQQLRESEERAAELASQLESTTAAKMSAEQD 891
SEQ	ID	NO:	5	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
				++TAA KS+ EQDRENTRA
SEQ	ID	NO:	13	RESTRATLEQQLRDSEERAAELASQLEATAAAKSSAEQDRENTRA 936

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Figure 4

				121	GAGCAGCAGCTTCGCGAATCCGAGGCGCGCGCGCGGGGGGGG	180 1
~		NO:		1	GAGCAGCATCGTGAATCCGAGGCGCGCGCGCGGAGCTGAAAGCCGAGCTGGAGGCC	_
_		NO:		181 1	ACTGCTGCTGCGAAGATGTCAGCGGAGCAGGACCGCGAGAACACGAGGGCCACGCTAGAG	240
_		NO:			ACTGCTGCTGCGAAGACGTCGGTGGAGCAGGAGCGTGAGAAGACGAG	
SEQ	ID	NO: NO:	4		CAGCAGCTTCGTGACTCCGAGGAGCGCGCTGCGGAGCTGGCGAGCCAGCTGGAGTCCACT CAGCAGCTTCGTGACTCCGAGGAGCGCGCTGCGGAGCTGATGCGGAAGTTAGAGGCGACT GA-CGGCTCTGGAGGGGCGCGCGCGGAGCTGGCTCGCAACTGGAGGCGACT	300 63 159
_					ACTGCTGCGAAGATGTCAGCGGAGCAGGACCGCGAGAGCACGAGGGCCACGCTAGAGCAG	
SEQ	ID	NO:	4	64		123 219
SEQ	ID	NO:	4	124	CAGCTTCGTGACTCCGAGGAGCGCCGCGGGGGGCGGGGGCCAGCTGGAGTCCACTACT CAGCTTCGCGAATCCGGAGGAGCACGCTGCGGAGCTGAAGGCCCAGCTGGAGTCCACTGCT	420 183
SEQ	ID	NO:	15	220	CGACTTCGTATTGCTGAGGTGCGCGCTGCGGAGCTGCAGGAGTGCTGGAGGCCACTGCT	279
SEQ	ID	NO: NO: NO:	4			480 243 339
SEQ	ID	NO: NO: NO:	4	244	CTTCGCGAATCCGAGGAGCGCGCTGCGGAGCTGGCGAGCCAGCTGGAGTCCACTACTGCT CTTCGCGAATCCGAGGAGCGCGCTGCGGAGCTGGCGAGCCAGCTGGAGGCCACTGCTGCT CTCCGCGAATCCGAGGCGCGCGCTGCGGAGCTGGCTGCAGCTGGAAGCCGCTGCTGCG	540 303 399
SEQ	ID	NO: NO: NO:	4	541 304 400		600 363 459
SEQ	ID	NO:	4	601 364 460	CGCGAATCCGAGGCGCGCGCGCGCGGAGCTGGCGAGTCAGCTGGAGTCCACTGCTGCTGCG	
SEQ	ID	NO:	4		AAGTOGTOGGOGGAGCAGGACCGCGAGAACACGAGGGCOGCGTTGGAGCAGCAGCTTCGT AAGTOGTOGGOGGAGCAGGACCGCGAGAACACGAGGGCOACGAAGTOCGCGAGACCGCGAGAACACGAGGGCCACG	465

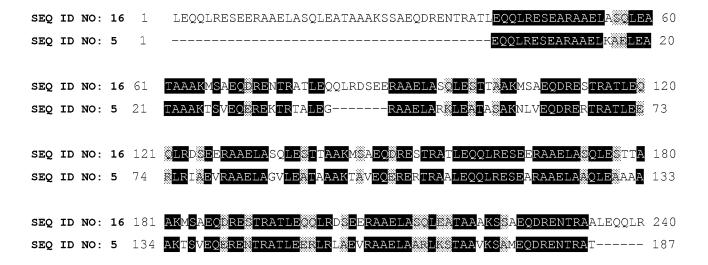
Inventor: Sarman SINGH et al.

Title: "POLYPEPTIDES FOR THE DIAGNOSIS AND THERAPY OF LEISHAMANIASIS"

Figure 5

SEQ	ID	NO:	16	1	leqqlr::seeraaelas@leataaakssaeq::rentratleqqlresearaaelas@le	60
SEQ	ID	NO:	6	1	-EQQLR SEERAAELMR LEATAAAK SAEQ RENTRATLEQQLRESEEHAAELKA CLE	59
SEQ	ID	NO:	5	1	-eqqlr se <mark>a</mark> raaelkableataaak sveqbrektrtalegraaelarkle	52
SEQ	ID	NO:	16	61	TARAKMSAEQDRENTRATLE CLRDSEERAAELASQLESTTAAKMSAEQORESTRATLEQ	120
SEQ	ID	NO:	6	60	TA AKTSAEQDRENTRAALE KLRESEERAAELASQLESTAAAKSSAEQKRENTRATLEQ	119
SEQ	ID	NO:	5	53	TA\$AKNLVEQDRERTRATLE##RLRIZEVRAAELAGVLEZTAAAKTZVEQ#RERTRAALEQ	112
SEQ	ID	NO:	16	121	QLR SEERAAELA QLE TTAAKMSAEQ RESTRAT LEQQLRESEERAAELA SQLESTTA	180
SEQ	ID	NO:	6	120	QLRESEARAAELAS QLESTAAAK <mark>SSA</mark> EQSRESTRAT	155
SEQ	ID	NO:	5	113	QLRESEARAAELA QLE AAAKTSVEQERESTRAT LEERLRLAEVRAAELAARLKSTAA	172
SEQ	ID	NO:	16	181	${\tt AKMSAEQDRESTRATLEQQLRDSEERAAELASQLEATAAAKSSAEQDRENTRAALEQQLR}$	240
SEQ	ID	NO:	6	155		155
SEQ	ID	NO:	5	173	VKSAMEQDRENTRAT	187

Figure 6



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Figure 7

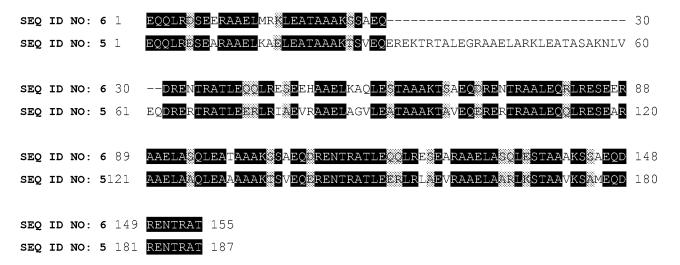


Figure 8

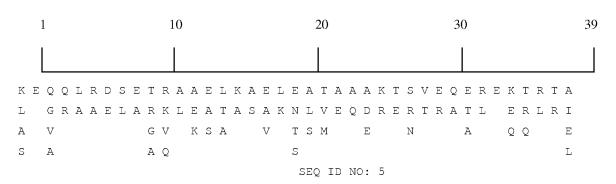
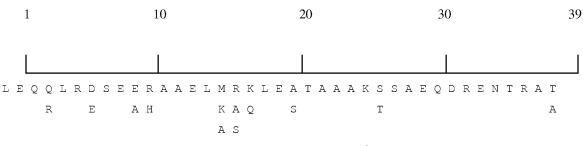


Figure 9



SEQ ID NO: 6

REPLACEMENT SHEET 7/11

b)

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Figure 10

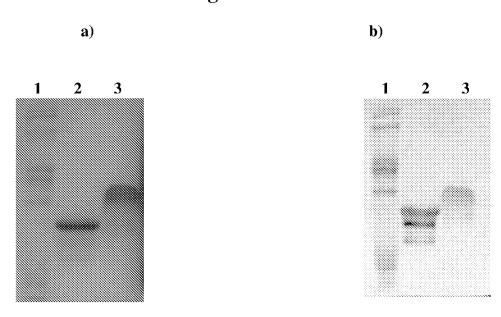
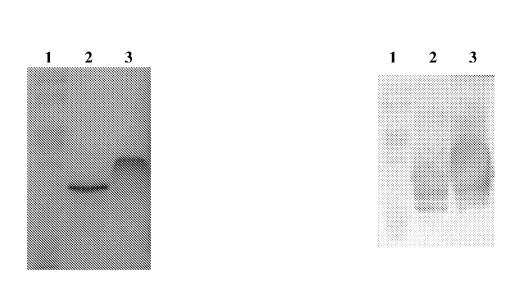


Figure 11



REPLACEMENT SHEET 8/11

Inventor: Sarman SINGH et al.

Title: "POLYPEPTIDES FOR THE DIAGNOSIS AND THERAPY OF LEISHAMANIASIS"

Figure 12

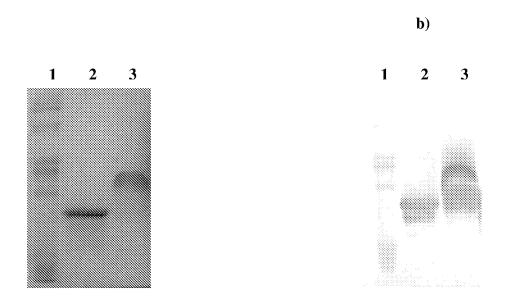
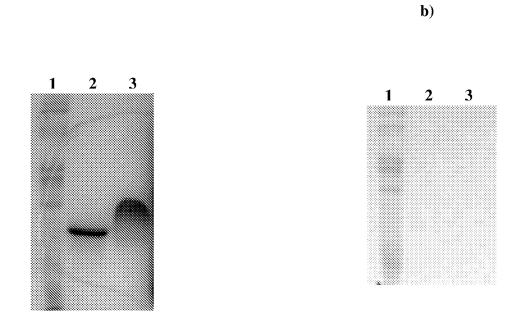


Figure 13



REPLACEMENT SHEET 9/11

Inventor: Sarman SINGH et al.

Title: "POLYPEPTIDES FOR THE DIAGNOSIS AND THERAPY OF LEISHAMANIASIS"

Figure 14

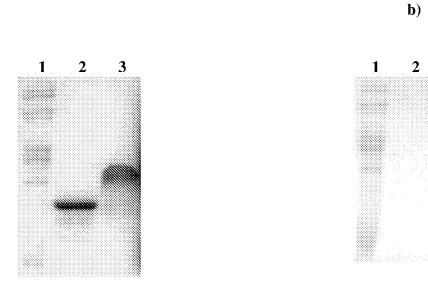
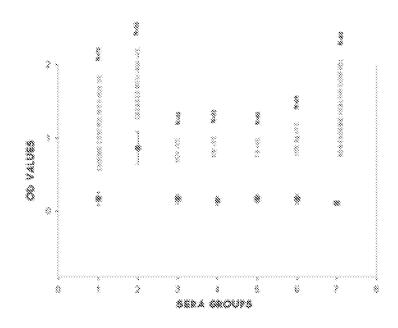


Figure 15

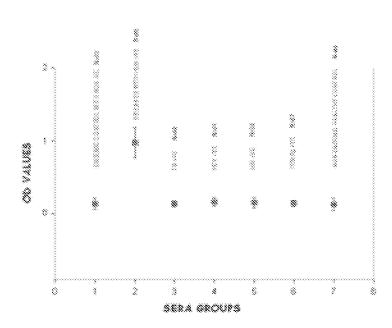


Mean	0.1670	0.8665	0.1634	0.1396)	0.1663	0.1636	0.1080
Std.Dev	0.0882	0.2182	0.0598	0.0584	0.0534	0.0615	0.0295

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Figure 16



Mean	0.1290	0.9730	0.1300	0.1545	0.1456	0.1363	0.1219
Std.Dev	0.0716	0.2096	0.0419	0.0548	0.0705	0.0456	0.0796